



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-03-02 Date: 10/01/2020
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer's Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-01-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	150.15 X 149.12 X 151.18	22389	8.011	566.4	25.3	25.5
2	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	151.38 X 151.00 X 151.20	22858	8.724	611.8	26.8	
3	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.40 X 150.22 X 150.75	22443	8.174	545.6	24.3	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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R. Rudraprasad
Authorized Signatory
Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-03-02 Date: 31/01/2020
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C., #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer's Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-01-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 31/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	151.88 X 150.93 X 150.72	22923	8.165	776.9	33.9	33.4
2	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	151.12 X 151.98 X 150.97	22968	8.711	746.5	32.5	
3	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	149.89 X 151.42 X 149.71	22695	8.415	766.2	33.8	

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-03-02 Date: 10/01/2020
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer's Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-01-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.44 X 151.78 X 150.85	22682	8.011	577.5	25.5	25.6
2	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.29 X 149.31 X 151.49	22290	8.724	593.0	26.6	
3	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	151.78 X 149.71 X 151.23	22724	8.174	565.1	24.9	

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Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-03-02 Date: 31/01/2020
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer's Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-01-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test : 31/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	151.66 X 149.66 X 149.57	22698	8.165	763.4	33.6	33.3
2	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	149.61 X 149.90 X 150.62	22426	8.711	727.3	32.4	
3	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	151.70 X 150.35 X 151.83	22809	8.415	770.2	33.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-03-02 Date: 10/01/2020
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer's Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-01-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	150.83 X 151.72 X 149.72	22884	8.011	574.0	25.1	25.2
2	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.52 X 149.59 X 150.65	22368	8.724	592.9	26.5	
3	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.17 X 151.40 X 151.87	22583	8.174	542.4	24.0	

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R. Rudraprasad
Authorized Signatory
Technical Manager



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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Formal No: CP/TE/01

Lab ID : CP-2020-08-03-02

Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Date: 31/01/2020

Address : T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name

Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15

Agency

Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Bangalore-57

Customer's Reference : EE/DD/WO/407/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-01-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	149.52	22310	8.165	745.6	33.4	33.1
					149.21					
					150.87					
2	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	150.43	22709	8.711	743.4	32.7	
					150.96					
					151.04					
3	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	151.42	22714	8.415	755.4	33.3	
					150.01					
					150.15					

Note:

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Sl. No.	MARK	of concrete	Casting	Testing	Dimension	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					of the Specimen (mm)					
1	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.42	X	22518	8.011	573.4	25.5
					150.70	X				
					151.24					
2	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.97	X	22467	8.724	606.2	27.0
					149.81	X				
					149.64					
3	Cement Concrete Pavement	M30	03/01/2020	10/01/2020	149.78	X	22730	8.174	561.9	24.7
					151.76	X				
					149.26					



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Form No: CP/TF/01

Lab ID

: CP-2020-08-03-02

Date: 31/01/2020

Customer

: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.

Address

: T Dasarahalli Sub Division, BBMP, Bangalore.

Project Name

: Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amoghha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15

Agency

: Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T. Dasarahalli Bangalore-57

Customer's Reference

: EE/DD/W/O/407/19-20

Source of Sample

: Sample supplied by Agency

Sample Condition

: Satisfactory

Date of Receipt

: 06-01-20

Customer ID

: Cement Concrete Pavement

Sample Type /Size

: 150X150X150 mm

Sample grade/Age

: M30 / 28 Days Compressive Strength

Reference to BIS codes

: IS- 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test

: 31/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
					(mm)					
1	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	150.15 X 150.95 X 149.57	22666	8.165	765.9	33.8	33.3
2	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	149.72 X 150.23 X 149.92	22493	8.711	729.3	32.4	
3	Cement Concrete Pavement	M30	03/01/2020	31/01/2020	150.15 X 151.90 X 150.53	22808	8.415	767.3	33.6	

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Handwritten signature
R. Rudraprasad



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Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2020-08-03-02 Date: 02-01-20
 Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
 Address : T Dasarahalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
 Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
 Customer Reference : EE/DD/WO/407/19-20
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 31-12-19
 Type of Mix : WMM (Wet Mix Macadam)
 Date of test : 31-12-19
 Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF AGGREGATE IMPACT VALUE IS: 2386 Part IV

Lab ID : CP-RW-2020-08-03-02 Date: 02-01-20
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-12-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 31-12-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2020-08-03-02 Date: 02-01-20
Customer : Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Address : T Dasarahalli Sub Division, BBMP, Bangalore.
Project Name : Improvements of CC Road From Excel Kalyana Mantapa Road Bharathi Theatre Road Lakshmaiah Building Road and Amogha Hotel Side Road Link to NH4 Road in Dasarahalli Ward No 15
Agency : Sri. Manjunatha N.C, #290, 5th Cross, 6th Main Road, Bhuvaneshwari Nagara, T.Dasarahalli Banaglore-57
Customer Reference : EE/DD/WO/407/19-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 31-12-19
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 31-12-19

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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